

Polaris Ranger XP900 Firestorm Heater Kit Instructions.



Please read all instructions before beginning installation.

When working on cooling systems always allow vehicles to cool to avoid being burned or scalded by hot coolant. Always disconnect vehicle's negative battery lead before working on electrical systems. Please note: Before drilling any holes check area behind firewall or dash panels to make sure no damage will occur by drilling holes.

Locate opening in frame on radiator side of firewall as shown in Fig 1a. Drill a $\frac{1}{4}$ " hole in the center of the opening through the plastic firewall from radiator side. Using the supplied 1 $\frac{1}{4}$ " hole saw drill from occupant side of firewall using the $\frac{1}{4}$ " hole as center. Be careful not to drill into the vehicles frame. Install grommet.

Cut out heater hose hole template and position on side of driveshaft tunnel cover as shown in Fig 1b. Mark hole saw center, remove template. Carefully drill heater hose holes using supplied 1 $\frac{1}{4}$ " hole saw. Place supplied grommets into drilled hole.

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Cut out cubby hole template and position in bottom of cubby hole (shown in Fig 2). Mark hole saw centers, remove template. Carefully drill the two ¼" holes.

Take main heater mounting bracket and hold up under center of dash. Line up main heater mounting bracket with the dash molding contour on right side under dash as shown in Figure 2a. Mark hole centers of slotted holes in main heater mounting bracket onto under dash panel. Remove main heater mounting bracket, drill the four mounting holes using a 3/8" drill.

Take LH and RH heater support brackets install U-Nuts as onto bracket as shown in Figure 2c. Fit LH and RH heater support brackets behind dash over the holes drill in lower dash panel with the long slotted holes in brackets behind cubby hole and pointing toward center of UTV as shown in Figure 2c. Using the 1/4x3/4 bolts with fender washers insert through holes in bottom of cubby hole and into long slotted holes of heater support brackets. Install nuts but do not tighten.

Install main heater mounting bracket, defrost duct(optional) with the end with tabs toward duct mounting bracket and defrost duct mounting bracket (optional) to heater as shown in Fig 3 and attach using supplied plastic mounting screws on both top and bottom side of bracket.

Using supplied heater hose, pass one end through the grommet in the firewall from the **radiator side** of the firewall, do not cut hose to do this. Remove the driveshaft tunnel cover by removing the four plastic push pins. Feed the remaining hose end from the **radiator side** of the firewall the up under the area below the driveshaft tunnel cover and through the grommet in the driveshaft tunnel cover. Fit the ezcoil over the end of this hose. Refit driveshaft tunnel cover. Attach heater hoses to heater unit (**Please note** lower hose clamp placement), top heater hose attach to temperature control valve and lower hose to heater core pushing the hose completely on the fitting. Install heater core support bracket to hoses as shown in Fig 4. Do not over tighten through bolt.

Attach 2.5" Duct hose to defrost duct (optional), and secure with cable tie.

Lift heater up into position pushing heater hoses back through grommets, also forming ezcoil as shown in Fig 4b.

Fit ¼ mounting bolts through main heater mounting bracket and dash panel and into heater support brackets, do not tighten. Adjust heater position, tighten cubby hole bolts and mounting bolts.

Connect wiring loom to heater, red wire to red and black wire to black. Run wiring loom to the power connection block as shown in Figure 5. Reconnect battery, turn key on to check fan operation, disconnect battery. Use cable ties as necessary to secure loom.

Drain cooling system by removing lower radiator hose. **Important Tip:** Raise front of vehicle on jack stands or ramps before draining cooling system. This will help in preventing air locks and you won't have to drain the whole cooling system. Cut Radiator hoses as shown in Fig 6a and 6b. Insert the Y connectors exactly as shown in Fig 6a, 6b and 7 in the radiator hoses. Before cutting the radiator hoses, be sure that the placement of Y's will not interfere with any part of the vehicle. Be sure the hose connected to the temperature control valve of the heater is connected to the top radiator hose. Cut heater hoses to length. Before connecting the hoses to the Y connectors, take a garden hose and run water through the heater hose and heater assembly, make sure the temperature control valve is fully open i.e. the max heat position. This will help remove air from the system and stop air locks, this step must be carried out. Fit hose to Y fittings

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and tighten clamps. Make sure all hoses are as far away as possible from driveshaft, steering shaft and sharp areas etc. Use cable ties as necessary.

Refill cooling system as per manufacturer's procedure. Start and run the vehicle at a fast idle and run up to normal operating temperature. Check for leaks. Check heater operation. Allow vehicle to cool and recheck cooling system level and coolant ratio, fill and/or alter coolant ratio as required.

If the heater fails to blow hot/warm air once the vehicle is up to operating temperature, there may be an air lock in the heater unit. Temporarily block off the top/inlet radiator hose between the Y fitting and radiator. Start and run vehicle up to operating temperature. Feel the outlet/lower hose from heater until it feels hot. The heater now should be blowing hot/warm air. Remove clamp from radiator hose. The heater should continue to blow hot/warm air. This procedure may have to be repeated a few times to remove air from system. Allow vehicle to cool, restart the vehicle and run up to operating temperature, recheck heater operation. Please note heater output will be limited at idle, all testing should be done at a fast idle.

Optional defrost duct install. Remove top dash panel by removing Push-Pins and Screws etc. Determine where you wish to install defrost vents, Fig 8a and 8b show approximately where the vents should be located. **Please note:** Removal of the "Warning" placard decal is a customer's decision and as such the person who removes such a decal assumes full responsibility.

Using supplied hole saw drill holes for vents. **Before drilling any holes check area behind the dash panels to make sure no damage will occur by drilling holes and that there is sufficient room for the vent and hose.** Attach duct Y to heater duct secure with a cable tie. Stretched duct hose from heater to a length past rear of heater up in behind dash area, cut hose. Attach duct Y to duct hose and secure with cable tie. Divide and cut remaining duct hose in half, attach each piece to the duct Y and secure with cable tie. Run each hose out to the vent hole and pass through the hole in dash and attach to vent inlet and secure with cable ties. Use Figure 8c as a guide. Place vents in to holes, push down carefully until vents snap into place. Reinstall top dash panel. **Important Tip:** Cleaning any burrs from around hole with a knife will make installing the vent into place easier.

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Figure 1b



Figure 1b

Polaris Ranger XP900 Firestorm Heater Kit Instructions.



Figure 2

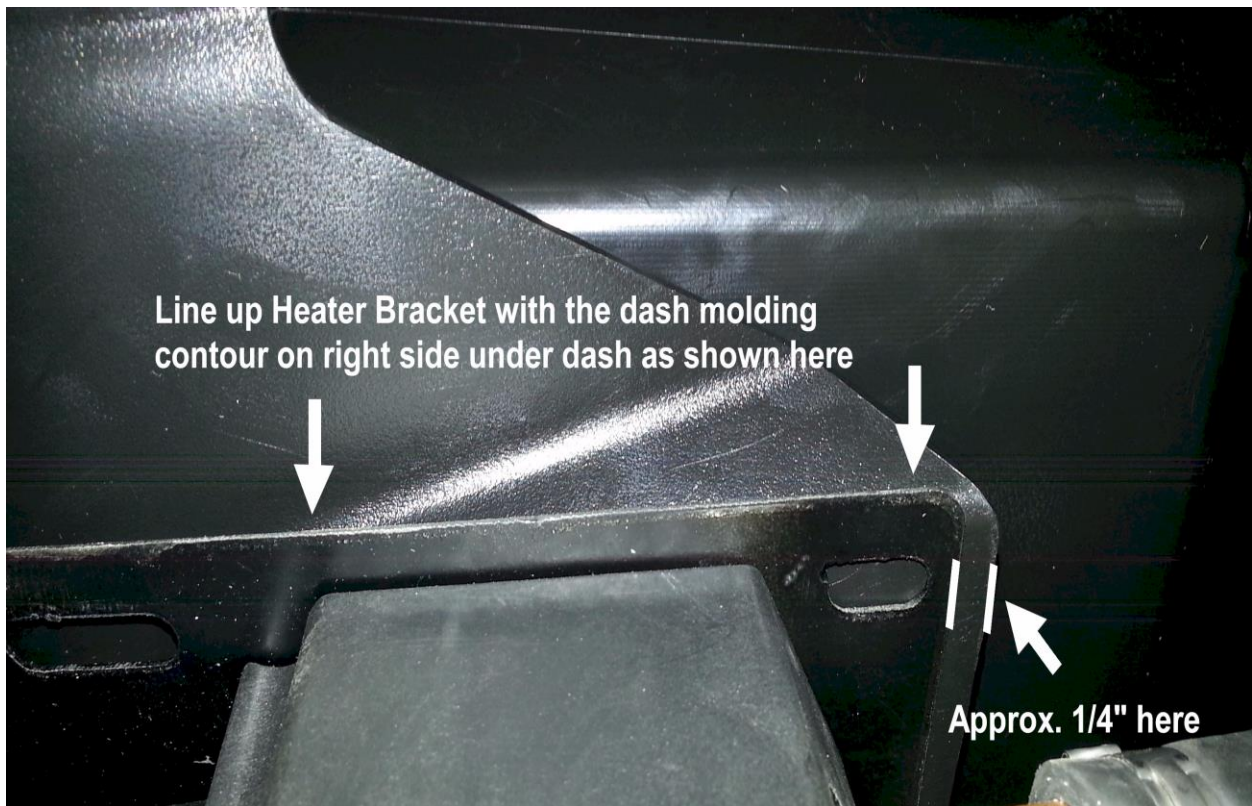


Figure 2a

Polaris Ranger XP900 Firestorm Heater Kit Instructions.



Figure 2c

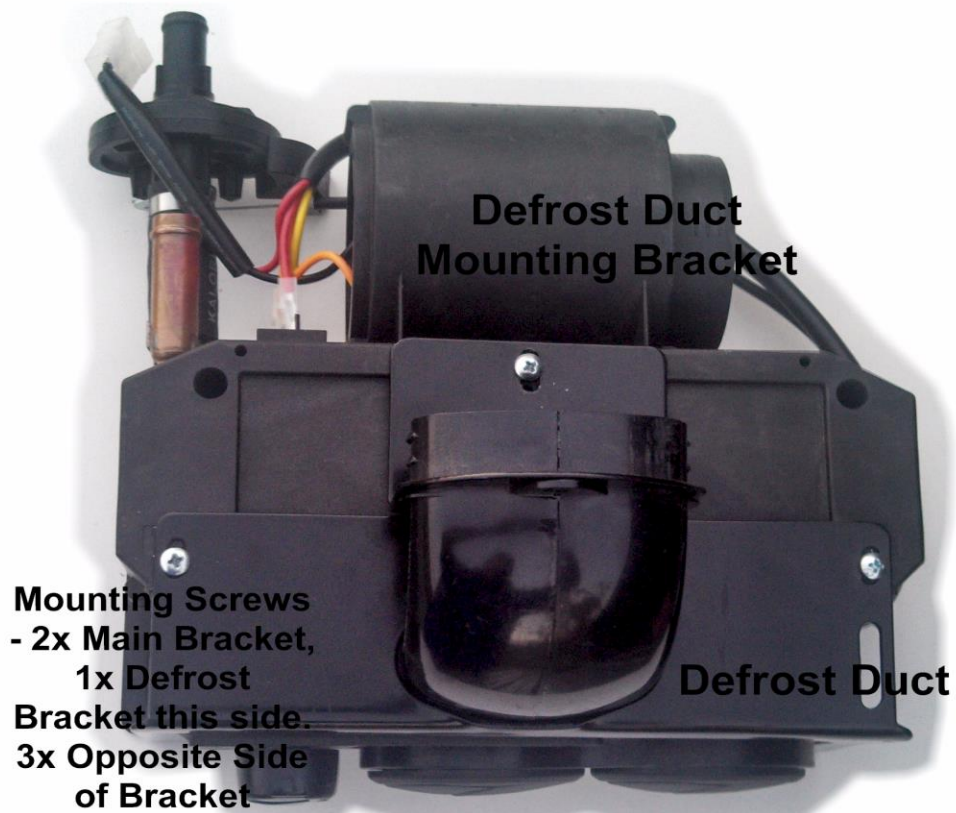


Figure 3

Polaris Ranger XP900 Firestorm Heater Kit Instructions.



Figure 4a



Figure 4b

Polaris Ranger XP900 Firestorm Heater Kit Instructions.

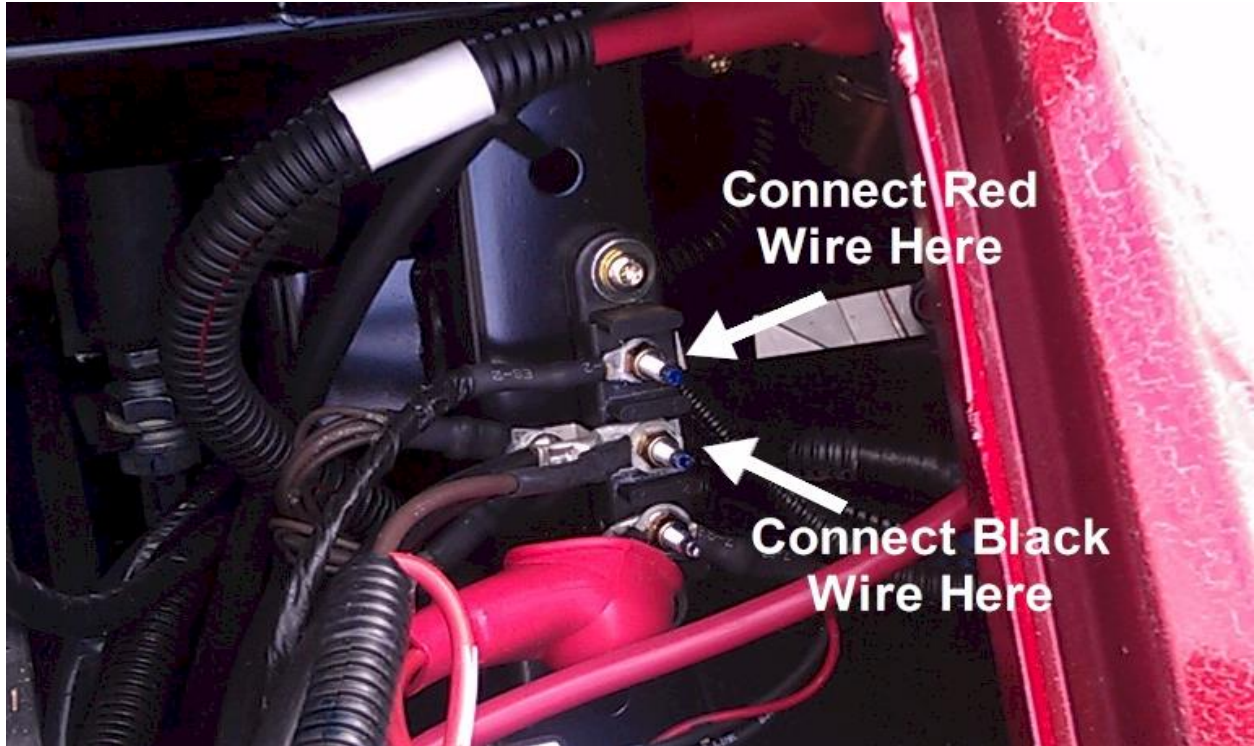


Figure 5



Figure 6a

Polaris Ranger XP900 Firestorm Heater Kit Instructions.



Figure 6b

Note: Inlet of heater must go to the top radiator hose

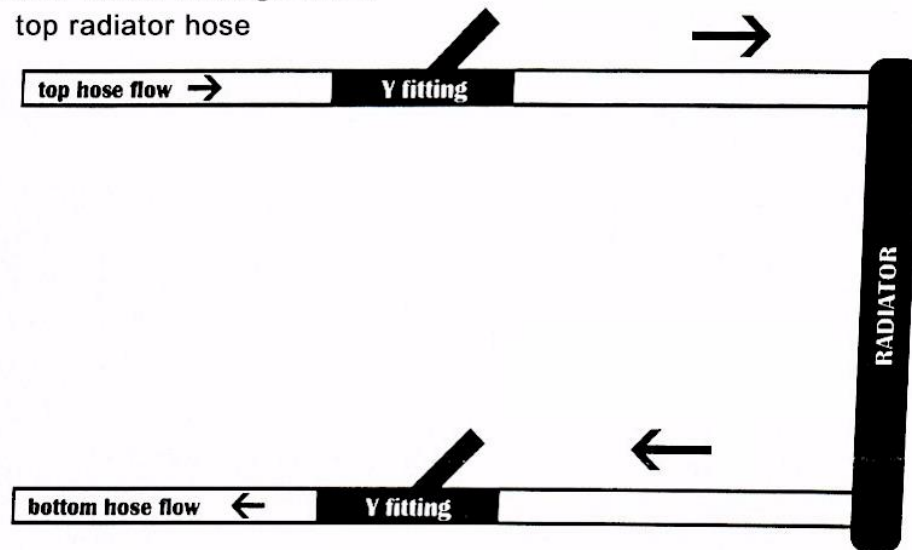


Figure 7

Polaris Ranger XP900 Firestorm Heater Kit Instructions.



Figure 8a



Figure 8b

Polaris Ranger XP900 Firestorm Heater Kit Instructions.

Polaris Ranger XP900 Heater Defrost Hoses and Ducts

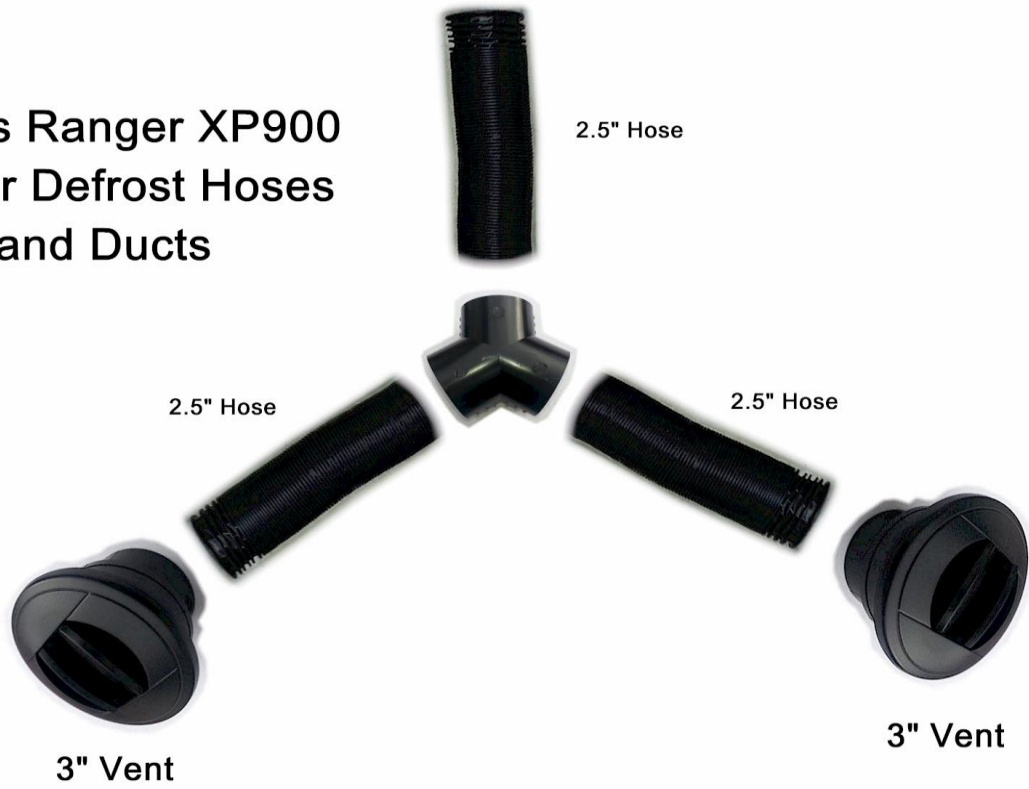


Figure 8c

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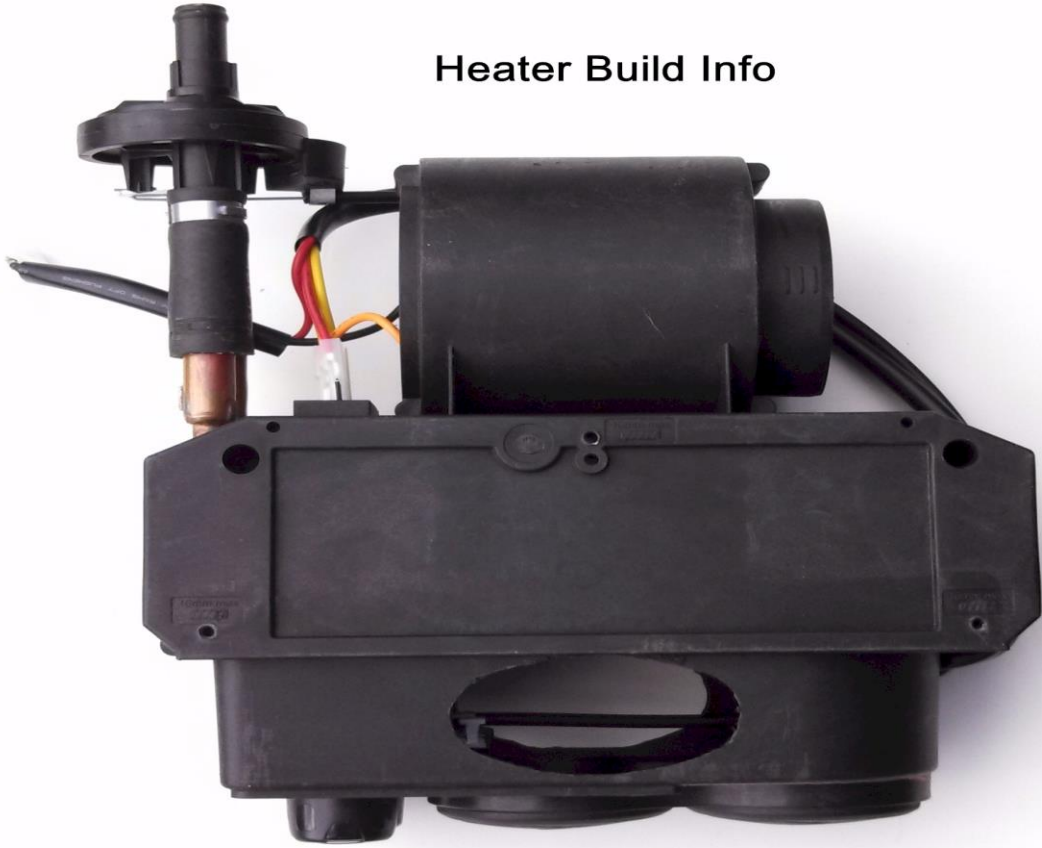
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Defrost Duct Kit If Supplied



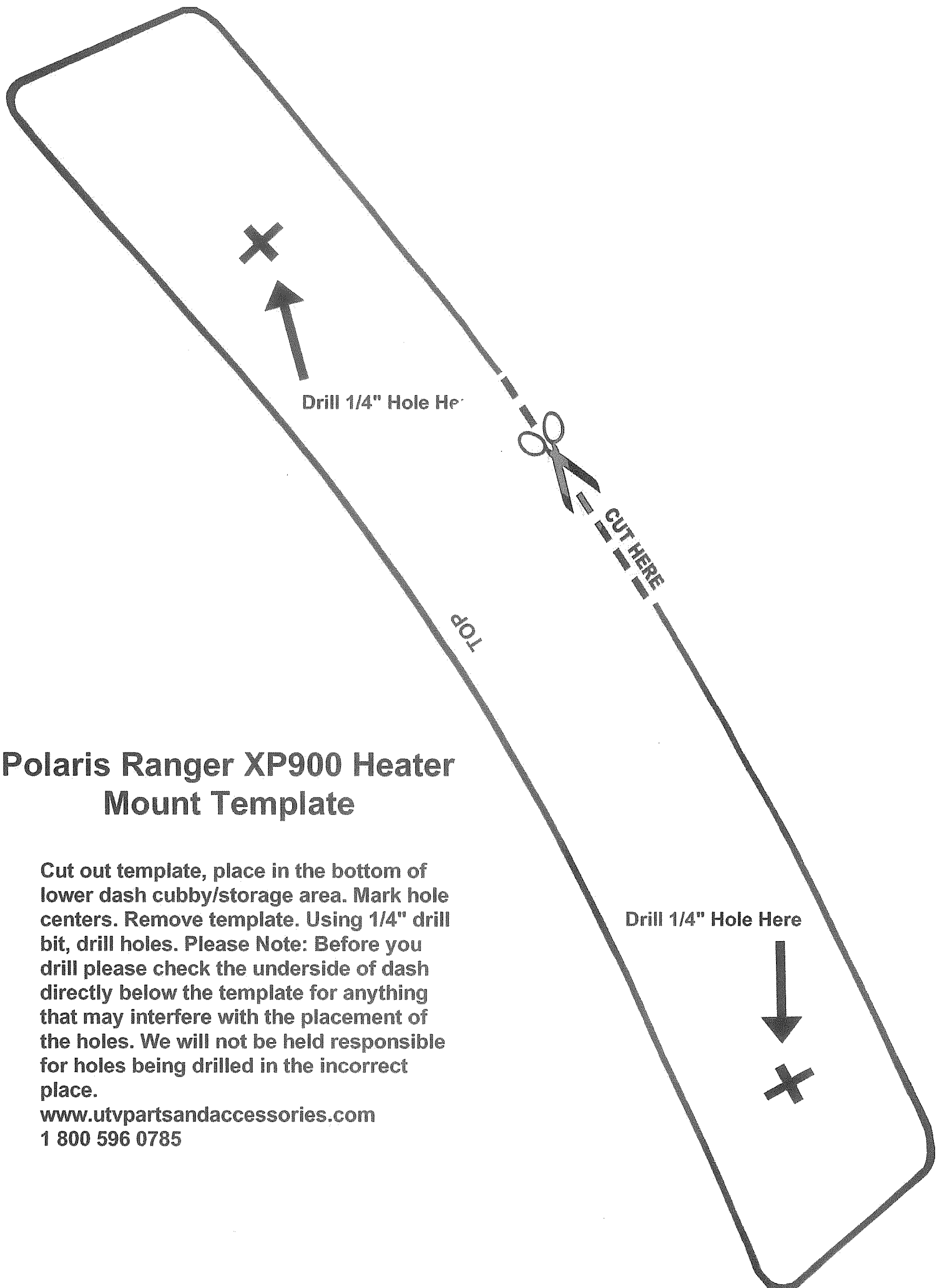
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Heater Build Info



Defrost Vent Cutout Bottom Side



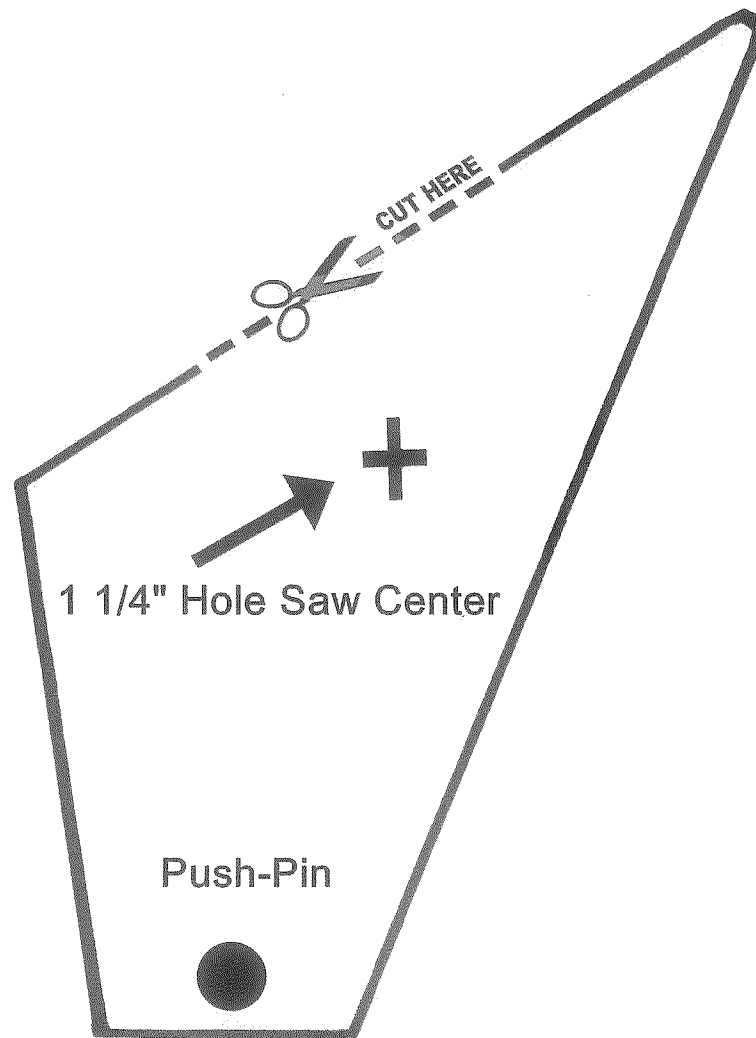


Polaris Ranger XP900 Heater Mount Template

Cut out template, place in the bottom of lower dash cubby/storage area. Mark hole centers. Remove template. Using 1/4" drill bit, drill holes. Please Note: Before you drill please check the underside of dash directly below the template for anything that may interfere with the placement of the holes. We will not be held responsible for holes being drilled in the incorrect place.

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Polaris Ranger XP900 Firestorm Under Dash Heater Hose Template.



Hold Template in position. Mark hole center. Drill hose hole with supplied 2 1/4" hole saw. Please Note: Before you drill please check the other side of panel for anything that may interfere with the placement of the holes. We will not be held responsible for holes being drilled in the incorrect place.